

=> d his

(FILE 'REGISTRY' ENTERED AT 09:49:00 ON 03 MAR 2004)

DEL HIS Y
ACT TRAVISS2/A

L1 STR
L2 (47712) SEA FILE=REGISTRY SSS FUL L1
L3 STR
L4 15554 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

ACT TRAVISS3/A

L5 STR
L6 STR
L7 (47712) SEA FILE=REGISTRY SSS FUL L6
L8 STR
L9 (15554) SEA FILE=REGISTRY SUB=L7 SSS FUL L8
L10 STR
L11 14 SEA FILE=REGISTRY SUB=L9 SSS FUL L10 OR L5

L12 315 S L4 AND 4432.3/RID
E SPHINGOSINE/CN
L13 1 S E3
E CHOLESTEROL/CN
L14 1 S E3
E NITRIC OXIDE/CN
L15 1 S E3

FILE 'CAPLUS' ENTERED AT 10:18:25 ON 03 MAR 2004

L16 39432 S L4
L17 91604 S L15 OR NITRIC OXIDE
L18 345446 S PHOSPHOGLYCER? OR GLYCEROL? OR GLYCERID? OR DIACYLGLYCER? OR
L19 136 S L16 AND L17 AND L18
L20 198 S L11 OR L12
L21 12 S L20 AND L17
L22 100538 S DRUG DELIVER?
L23 53277 S MEDICAL OR BANDAGE? OR PATCH?
L24 14 S L19 AND (L22 OR L23)
L25 15 S L19 AND 63/SX,SC
L26 18 S L24 OR L25
L27 17 S L26 NOT L21

=> fil reg

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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 2 MAR 2004 HIGHEST RN 657348-90-8
 DICTIONARY FILE UPDATES: 2 MAR 2004 HIGHEST RN 657348-90-8

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que stat l4

L1 STR

S—N=O	G1 4	O—N=O	N—N=O
1 @2 3		5 @6 7	8 @9 10

VAR G1=2/6/9

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 1

CONNECT IS E2 RC AT 5

CONNECT IS E3 RC AT 8

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L2 (47712)SEA FILE=REGISTRY SSS FUL L1

L3 STR

S—N=O	G1 4	O—N=O	N—N=O
1 @2 3		5 @6 7	8 @9 10

VAR G1=2/6/9

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 1

CONNECT IS E2 RC AT 2

CONNECT IS E2 RC AT 5

CONNECT IS E2 RC AT 6

CONNECT IS E3 RC AT 8

CONNECT IS E2 RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

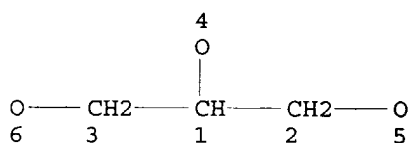
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L4 15554 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

100.0% PROCESSED 47712 ITERATIONS
SEARCH TIME: 00.00.01

15554 ANSWERS

=> d que stat l11
L5 STR

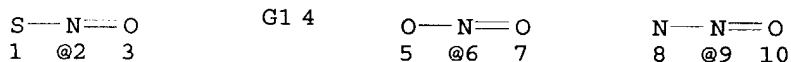


→ glycerols

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L6 STR

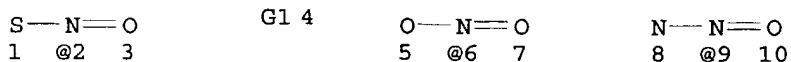


VAR G1=2/6/9 ✓

NODE ATTRIBUTES:
CONNECT IS E2 RC AT 1
CONNECT IS E2 RC AT 5
CONNECT IS E3 RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L7 (47712) SEA FILE=REGISTRY SSS FUL L6
L8 STR



VAR G1=2/6/9

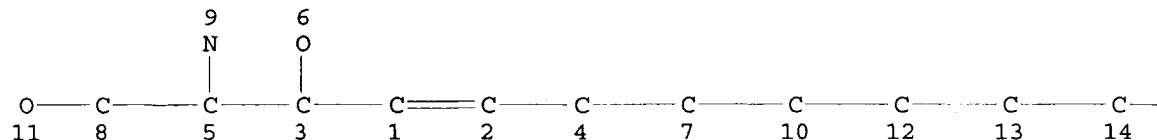
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 1
CONNECT IS E2 RC AT 2
CONNECT IS E2 RC AT 5

CONNECT IS E2 RC AT 6
 CONNECT IS E3 RC AT 8
 CONNECT IS E2 RC AT 9
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

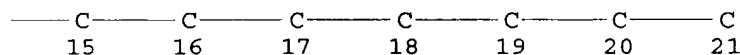
GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L9 (15554)SEA FILE=REGISTRY SUB=L7 SSS FUL L8
 L10 STR



Page 1-A



Page 1-B

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

→ sphingosines

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

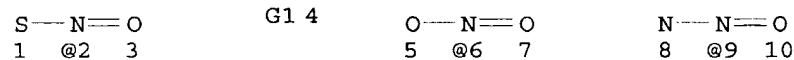
L11 14 SEA FILE=REGISTRY SUB=L9 SSS FUL L10 OR L5

100.0% PROCESSED 170 ITERATIONS
 SEARCH TIME: 00.00.01

14 ANSWERS

=> d que stat l12

L1 STR



VAR G1=2/6/9

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 1
 CONNECT IS E2 RC AT 5
 CONNECT IS E3 RC AT 8
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L2 (47712)SEA FILE=REGISTRY SSS FUL L1

L3 STR

S—N==O	G1 4	O—N==O	N—N==O
1 @2 3		5 @6 7	8 @9 10

VAR G1=2/6/9

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 1

CONNECT IS E2 RC AT 2

CONNECT IS E2 RC AT 5

CONNECT IS E2 RC AT 6

CONNECT IS E3 RC AT 8

CONNECT IS E2 RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L4 15554 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

L12 315 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND 4432.3/RID

=> d que l13; d l13

L13 1 SEA FILE=REGISTRY ABB=ON PLU=ON SPHINGOSINE/CN

→ sterols
structure
ring system

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 123-78-4 REGISTRY

CN 4-Octadecene-1,3-diol, 2-amino-, (2S,3R,4E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4-Octadecene-1,3-diol, 2-amino-, (E)-D-erythro- (8CI)

CN 4-Octadecene-1,3-diol, 2-amino-, [R-[R*,S*-(E)]]-

OTHER NAMES:

CN (-)-D-erythro-Sphingosine

CN (2S,3R)-Sphingosine

CN (2S,3R,4E)-2-Amino-4-octadecene-1,3-diol

CN (4E)-Sphingenine

CN 4-Sphingenine

CN 4-trans-Sphingenine

CN C18-Sphingosine

CN D-(+)-erythro-4-trans-Sphingenine

CN D-erythro-C18-Sphingosine

CN D-erythro-Sphingosine

CN D-Sphingosine

CN erythro-4-Sphingenine

CN erythro-C18-Sphingosine

CN Erythrosphingosine

CN Sphingenine

CN **Sphingosine**

CN trans-4-Sphingenine

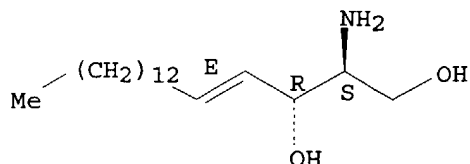
FS STEREOSEARCH

DR 45261-75-4

MF C18 H37 N O2

CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIUDB,
 IPA, MEDLINE, MRCK*, NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1061 REFERENCES IN FILE CA (1907 TO DATE)
 60 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1061 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d que l14;d l14

L14 1 SEA FILE=REGISTRY ABB=ON PLU=ON CHOLESTEROL/CN

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 57-88-5 REGISTRY

CN Cholest-5-en-3-ol (3β) - (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholesterol (8CI)

OTHER NAMES:

CN (-)-Cholesterol

CN Δ5-Cholesten-3β-ol

CN 3β-Hydroxycholest-5-ene

CN 5:6-Cholesten-3β-ol

CN Cholest-5-en-3β-ol

CN Cholesterin

CN Cholesteryl alcohol

CN Dythol

CN Lidinit

CN Lidinite

CN NSC 8798

CN Provitamin D

FS STEREOSEARCH

DR 80356-33-8, 209124-38-9, 218965-24-3, 262418-13-3, 378185-03-6

MF C27 H46 O

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*,

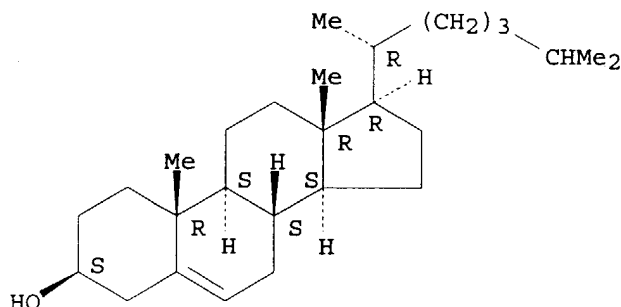
DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

101396 REFERENCES IN FILE CA (1907 TO DATE)
8746 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
101528 REFERENCES IN FILE CAPLUS (1907 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d que 115; d 115

L15 1 SEA FILE=REGISTRY ABB=ON PLU=ON "NITRIC OXIDE"/CN

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 10102-43-9 REGISTRY

CN Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Amidogen, oxo-

CN INOmax

CN **Nitric oxide**

CN Nitric oxide (NO)

CN Nitric oxide trimer

CN Nitrogen monoxide

CN Nitrogen monoxide

CN Nitrogen oxide (N4O4)

CN Nitrogen(II) oxide

CN Nitrosyl radical

CN OHM 11771

DR 53851-19-7, 51005-20-0, 51005-21-1, 90452-29-2

MF N O

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,

ENCOMPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSPATENTS,
IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA,
PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL,
VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

N=O

78192 REFERENCES IN FILE CA (1907 TO DATE)

458 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

78381 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus

FILE 'CAPLUS' ENTERED AT 10:30:00 ON 03 MAR 2004

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FILE COVERS 1907 - 3 Mar 2004 VOL 140 ISS 10

FILE LAST UPDATED: 2 Mar 2004 (20040302/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l21

L1 STR

L2 (47712)SEA FILE=REGISTRY SSS FUL L1

L3 STR

L4 15554 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

L5 STR

L6 STR

L7 (47712)SEA FILE=REGISTRY SSS FUL L6

L8 STR

L9 (15554)SEA FILE=REGISTRY SUB=L7 SSS FUL L8

L10 STR

L11 14 SEA FILE=REGISTRY SUB=L9 SSS FUL L10 OR L5

L12 315 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND 4432.3/RID

L15 1 SEA FILE=REGISTRY ABB=ON PLU=ON "NITRIC OXIDE"/CN

L17 91604 SEA FILE=CAPLUS ABB=ON PLU=ON L15 OR NITRIC OXIDE/OBI

L20 198 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR L12

L21 12 SEA FILE=CAPLUS ABB=ON PLU=ON L20 AND L17